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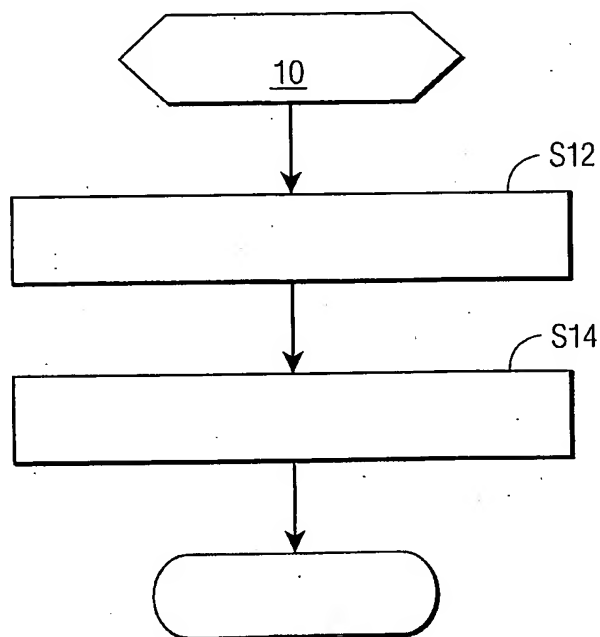
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**Declarations under Rule 4.17:**

— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ,

[Continued on next page]

(54) Title: **PRESSURE MAP BASED FINGERPRINT AUTHENTICATION METHOD AND SYSTEM**



(57) Abstract: A fingerprint system (80) implements a fingerprint authentication method (20, 60) for a user fingerprint image (UFI) based on a plurality of control fingerprint images (CFI). The method involves a transformation of each control fingerprint image (CFI) into a transformed control fingerprint image (TCFI) as a function of a pressure map (PM) associated with the user fingerprint image (UFI), a matching of each transformed control fingerprint image (TCFI) to the user fingerprint image (UFI), and an authentication of the transformed control fingerprint image (TCFI) having a best match with the user fingerprint image (UFI) as an identified fingerprint image (IFI).



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